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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/566,784	09/14/2006	Kjeld Holbek	030307-0281	7761	
22428 7590 07/24/2009 FOLEY AND LARDNER LLP			EXAMINER		
SUITE 500 3000 K STREET NW WASHINGTON, DC 20007			MARCANTONI, PAUL D		
			ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/566,784 HOLBEK ET AL.

Office Action Summary		Examiner	Art Unit					
		Paul Marcantoni	1793					
	The MAILING DATE of this communication app			ddress				
Period fo			•					
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLA. CHEVER IS LONGER, FROM THE MAILING DA misons of time may be available under the provisions of 37 CFR 1.15 misons of time may be available under the provisions of 37 CFR 1.15 point of tor reply in specified above, the maximum shatutory period to reply in specified above, the maximum shatutory period to reply with the set or established period for reply with by shatute, reply received by the Office state than three months after the mailing ded plant term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).					
Status								
1)🛛	Responsive to communication(s) filed on 31 Ja	nuary 2006.						
2a)□	This action is FINAL . 2b)⊠ This							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4)⊠ Claim(s) <u>1-13 and 38-47</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s)is/are allowed.							
	☐ Claim(s) 1–13 and 38-47 is/are rejected.							
	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction and/or	r election requirement.						
Annlinati	ion Papers							
	·							
	The specification is objected to by the Examine							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11\	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
-	•	animer. Note the attached Office	ACTION OF IOTHER	10-132.				
Priority (under 35 U.S.C. § 119							
	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents		-(d) or (f).					
	2. Certified copies of the priority documents	s have been received in Applicati	on No					
	3. Copies of the certified copies of the prior	ity documents have been receive	ed in this Nationa	Stage				
	application from the International Bureau	ı (PCT Rule 17.2(a)).						
* 8	See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachmen	t(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary Paper No(s)/Mail Da	view Summary (PTO-413) er No(s)/Mail Date					

3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patert Application

6) Other: _____. Paper No(s)/Mail Date 9/14/06.

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35 USC 102/103:

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 and 38-47 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over *Dongell (US 2003/233,962-from Int'l Search Report), WO 91/03437-from Int'l Search Report)* Holbek '709, Naji 277 A1 or '424 or '067, Johnson, Abbate, Comrie '551 or '946, or '478 or '823, Drochan '377 or '466, Lecolier, Timmons '420 or '740, Sadikovic '865, Ong '336 A1, Radke '210, McCarthy '069, Mazany '576 A1 or '285, Sobolev '669, Shi '305, Berke '281, Prat '650 or '885 A1, Robson '649 A1, Barton '470, Yates '954, Myles '535, McMahon 082 or 061, Greenwald '677, Garces '442, or Huntsberger '664.

All of the above cited references broadly teach and meet the limitations of at least directly claims 1 and 2 thus anticipating applicants' claims (and claims 12-13) by anticipating these claims and if not at least rendering them obvious to one of ordinary skill in the art. The examiner wishes applicants and their counsel not to be frustrated by the number of references cited because they will be guickly and promptly withdrawn

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upon amendment of the broadest claims 1 and 2 so these references no longer read upon them. However, because applicants present such broad claims, the examiner wishes only to present the best available prior art in accordance with MPEP guidelines so applicants may accordingly amend their claims. The search led to so many references that read upon especially these claims. It is not his intention to overburden applicants with references and if applicants wish to discuss said rejection in an interview, the examiner in the interest of expedited prosecution will gladly do so to assist in the excedited removal of references.

The two italicized references were presented as X references in the international search report as anticipating applicants' claims and thus have been represented for only this reason.

Holbek '709 would appear to teach all the same components and overlapping amounts thus anticipating applicants' claims. Even if not anticipated, overlapping ranges of amounts would have been prima facie obvious to one of ordinary skill in the art.

Naji '277 or '424 or '067 teach a composition comprising at least cement (base) and fly ash (amorphous silica as taught in the applicants' specification) thus anticipating applicants' invention. Even though Naji does not teach other sources of amorphous silica and/or base, it would have been obvious to use other sources of these components because they are functionally equivalent and thus obvious to one of ordinary skill in the art.

Johnson '272 teaches a composition comprising alkali hydroxide, fly ash, silica fume, and pumice and is a setting composition also thus anticipating applicants' claims.

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Even if not anticipated the use of other bases or amorphous silica would have been obvious to one of ordinary skill in the art because of functional equivalence.

Abbate '255 teach a composition comprising Portland cement, fly ash (amorphous silica) or silica fume (amorphous silica) (See claims).

Comrie '551 or '946 or '823 teach a composition comprising Portland cement (base), fly ash (amorphous silica), and fumed silica (amorphous silica).

Drochan teach a composition comprising Portland cement and colloidal silica.

Again Portland cement is a base and colloidal silica is amorphous silica.

LeColier teach a composition comprising cement and microsilica.

Timmons '420 teach a composition comprising Portland cement and fly ash (base and amorphous silica respectively).

Sadikovic teach a composition comprising slag (amorphous silica source), KOH, K silicate, and K carbonate (see claims).

Ong teach a composition comprising cement (base), fumed silica, fly ash, sand, clay, and mixes thereof.

Radke teach a composition comprising hydraulic cement (base), fly ash, microsilica, water, and sand (see claims).

McCarthy teach a composition comprising cement, fly ash, and silica fume.

Mazany teach compositions comprising KOH, K silicate, and silica fume and the composition is settable or curable with water.

Sobolev teach a composition comprising cement (base), silica fume, bentonite, kaolin, etc.

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Shi teach a composition comprising Portland cement (base), liquid alkali silicate (base), and fly ash (amorphous silica source-see applicants' specification).

Berke teach a composition comprising Portland cement (base) and silica fume or fly ash.

Prat teach a composition comprising cement, precipitated silica, and water.

Robson teach a composition comprising colloidal silica, calcium aluminate cement (base), and filler.

Barton teach a composition comprising fly ash (amorphous silica), sodium silicate (base), and water.

Yates '954 teach a composition that is settable comprising colloidal silica and organic or inorganic base.

Myles '535 teach a composition comprising Al silicate fibers, amorphous silica, and calcium aluminate binder (base).

McMahon '082 teach a composition comprising colloidal silica (amorphous silica), water, Mg carbonate (base), and zinc dust (aggregate). See Example 1 in col.4.

McMahon '061 teach a composition comprising colloidal silica, LiOH (base), and zinc dust aggregate.

Greenewald '677 teach a composition comprising silica flour (amorphous silica), bentonite, luminite cement (Ca Aluminate cement-base), sodium silicate (base), and water.

Garces '442 teach a composition comprising colloidal silica and alkali silicate.

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Huntsberger '664 teach a composition comprising in Example 5, col.4, for example, a coating composition of K silicate (base), water, colloidal silica (amorphous silica), NaOH (base), and sodium methyl siliconate.

It is the examiner's position that the addition of an aggregate/filler, fibers, surfactants, solvents, accelerators, retarders (amend retardant to retarder in claim 9 please, they do not mean the same thing—retardant to the examiner seems to mean something like "fire" retardant, not cement retarder), and other admixtures. It is noted that these components are commonly and conventionally added to cementitious mixtures (MPEP 2144). It is also noted that the order of adding ingredients would also not appear to be critical and changes in the order/sequence of adding ingredients would have been prima facie obvious to one of ordinary skill in the art absent evidence to the contrary.

35 USC 112 Second Paragraph:

Claims 1-13 and 38-47 are rejected under 35 U.S.C. 112, second paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention.

The term "optionally additives" would appear indefinite in claim 1. What other applicants do applicants refer?

Please amend "selected from" in claim 2 to --selected from the group consisting of---. Do the same in claim 3.

Claim 8 is indefinite because how do applicants distinguish between their amorphous silica, which, according to their specification, can be fly ash, and their added

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aggregate particles? They can be the same. Pumice has the same problem because it too can be according to applicants' specification amorphous silica.

Claim 12 is indefinite because they do not define or point out particularly what those additives are in this claim; not do they distinctly claim the specific additives. Same is true in claim 13.

It is expected that most if not all 112 issues and the bulk of the references (if not all of them) would be withdrawn upon applicants' next response. If he or she has any questions, they may call the examiner for an interview if they believe that is necessary.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Marcantoni whose telephone number is 571-272-1373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Paul Marcantoni/ Primary Examiner, Art Unit 1793